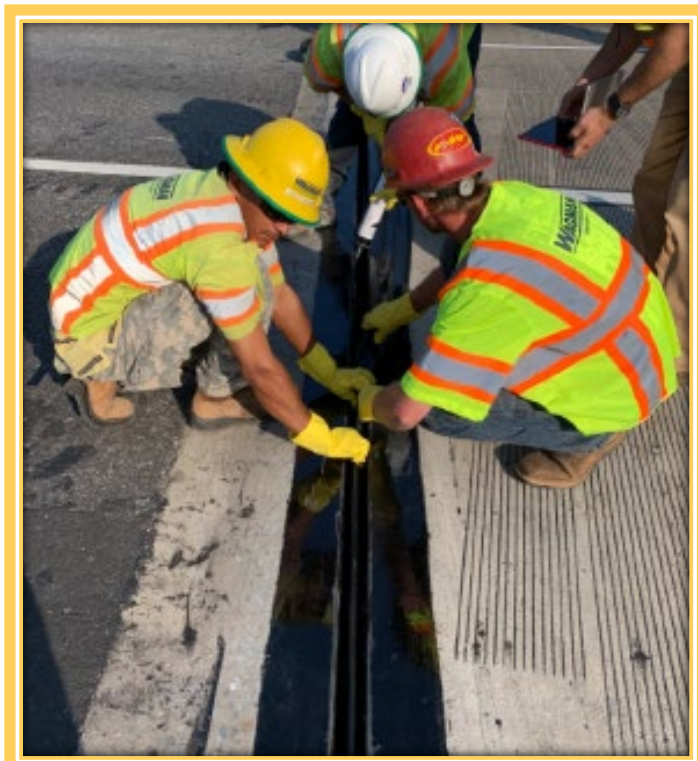




# Poly-Tron Elastomeric Concrete Installation Procedure Data Sheet



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Rev 3 | 3/22 | SMJ-POLY-IN01



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## Required Equipment & Product Checklist

There CANNOT be any rain forecasted for the installation day! The joint area must be completely dry!

Please review the installation instructions to familiarize yourselves on the proper method and placement techniques for this product prior to your actual installation date. Should you require any further information or have any questions, please contact us.

Bring the entire inventory that was shipped to you making sure that everything listed on the packing slip matches what you received - (See the packing slip and instructions that were enclosed with your shipment). Keep all the product inside in a warm & dry environment! Do not allow it to get wet or freeze!

All your foam forms to prepare the block-out.

An air compressor along with sandblasting equipment with air attachment to clean the joint.

A large handheld electric power mortar mixer with 2 to 3 Universal thin-set and Helix Mixing Paddles that fit into the mixer.

Four to five clean 5-gallon mixing pales - These can be purchased from any hardware store.

Concrete trowels - Large and small - paint thinner to clean them.

A large tarp to be used as a mixing station for the Poly-Tron. Adhere duct tape to both sides of the block-out to create a neat margin during the pour and trowel portion of the installation. Removed duct tape immediately after installation before Poly-Tron cures.

Field Service is also available. Contact and RJ Watson representative for more information.





# **Poly-Tron Elastomeric Concrete Installation Procedure Data Sheet**

## **Create & Prepare Block-Out**

Saw cut and demo the substrate to the dimensions desired for the area that will receive the elastomeric concrete header system. Substrate must be clean, dry to touch (<5% moisture), sound, and free of incompatible substrates such as unapproved patching materials, delaminated concrete, salt, oil, or chemical saturation, degraded steel, asphalt, bitumen, etc. If the substrate is suspicious the on-site tech rep and/or manufacturer shall be notified for recommendations prior to placement.

The bottom interface of the Poly-Tron must be placed on a structural member. Any deviations from any of these instructions require manufacturer's approval and recommendations. New concrete should be 85% cured (10-14 days for 28-day concrete) prior to application. Sandblast all surfaces against which the Poly-Tron is to be placed. Metalized steel may require only a "brush blast" to ensure a clean surface.

All non-metalized steel shall be blasted to SSPC-10 (Near-white finish). Remove all sand and debris with oil-free compressed air. Be sure the temporary form for the joint opening is set per plans and specifications. Ensure a tight fit to prevent elastomeric

concrete from leaking into the joint opening. Do not use any form release agents.

\* Apply duct tape to both outside areas of the block-out to create a neat margin during the pour and trowel portion of the installation. Remove duct tape immediately after installation is complete and before Poly-Tron cures.

## **Primer Application**

Prepare the primer by mixing (1) Can A & (1) Can B without aggregate thoroughly for 30 to 60 seconds in a 5-gallon bucket. Pour into block-out area and spread by hand with a brush to all surfaces that will be in contact with the Poly-Tron elastomeric concrete. The coated area needs to be thick enough not to see through to the concrete substrate. DO NOT allow the primer mix to puddle in the block-out. Place the mixed Poly-Tron elastomeric concrete immediately after priming. No wait time is needed.

\*Primer is also available in a spray-able cartridge. Contact R.J. Watson for details.

## **Poly-Tron Installation**

Mix Poly-Tron according to proper ratio: Mix (1) Can A & (1) Can B for approximately 30 to 60 seconds. As you continue to mix both parts, slowly add (1) bag aggregate and mix





# **Poly-Tron Elastomeric Concrete Installation Procedure Data Sheet**

thoroughly. All aggregate should be saturated completely with the resin mixture. Place the mixed elastomeric concrete into the prepared area per plans and specifications. Make sure that it is thoroughly compacted under any steel angles, around all anchors, re-bar, and within the block out. Trowel flush with existing deck. Working time of mixed material varies depending on mass and temperatures. Average placement time of the Poly-Tron material is about 3-5 minutes per kit from beginning of mixing. After cure, remove temporary forms and grind a  $\frac{1}{4}$ " bevel to the two opposing top edges of the new Poly-Tron header system. Please view installation photos starting on next page of these instructions.

Poly-Tron traffic ready time is shown below:

- At 65-45°F (18-7°C) the cure time is approximately 3-5  $\frac{1}{2}$  hours.
- At 80-65°F (27-18°C) the cure time is approximately 2-3  $\frac{1}{2}$  hours.
- At 95-80°F (35-27°C) the cure time is approximately 1-2  $\frac{1}{2}$  hours.





# Poly-Tron Elastomeric Concrete Installation Procedure Data Sheet

## Step One

Make sure all concrete repairs are completed prior to the installation of Poly-Tron.

## Note

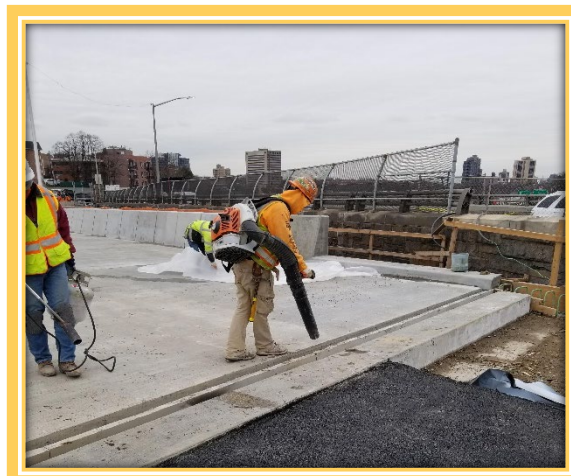
If concrete repairs are made with standard concrete, you must wait 10-14 days before installing Poly-Tron. A "Rapid-Set DOT" concrete may also be used which would allow the installation of Poly-Tron within 2-3 hours.

## Step Two

Measure the width of both sides of the block-out as well as the depth to ensure you have the proper quantity of material. Make sure there is no loose substrate.

## Step Three

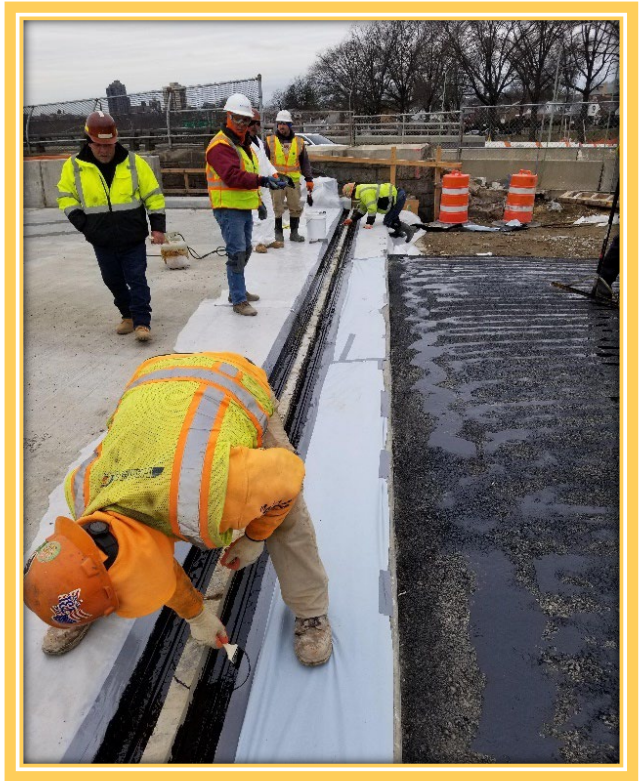
Thoroughly sand blast and clean the entire block-out, then insert all joint forms.





## **Step Four**

Thoroughly mix part A & B units of primer and apply to all areas of the block-out in which the elastomeric concrete will be in contact with. DO NOT allow the primer mix to puddle in the block-out as this will cause the Poly-Tron to rise after placement.



## **Step Five**

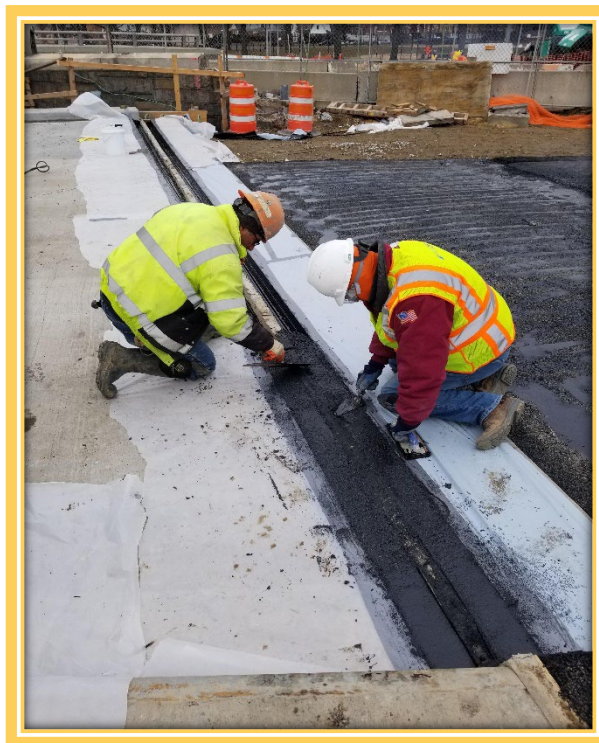
Near the joint, set up and prepare the mixing station using a plastic tarp to prevent spillage of the material on the surrounding road surface. Next, arrange and open several units of Poly-Tron, bags of aggregate and 5-gallon buckets. Have two people mix, 1 person pour it into the block-out, and another person to trowel the mixture flush with the road surface.



# **Poly-Tron Elastomeric Concrete Installation Procedure Data Sheet**

## **Step Six**

After the material is placed in the block-out, immediately begin troweling the mixture flush with the road surface.



## **Note**

This is a fully cured section of the Poly-Tron system with the Silicoflex Joint Sealing System installed. This also shows a typical directional change using Poly-Tron.

